

NAME:

MFK9-NEW.SEQ

7654 BPS DNA

* * * S E Q U E N C E * * *

1 AAGCTTGCAT GCCTGCAGGT CGACTCTAGG CACATAAAGA AAAACATAAC TAACCAAGCT
TTCGAACGTA CGGACGTCCA GCTGAGATCC GTGTATTTCT TTTTGTATTG ATTGGTTCGA

61 GCAGCCGAGA CAGTGAAAAG AACCGTTAAA ACGGTTTGT TTAATAAAT TGAATTATTT
CGTCGGCTCT GTCACTTTTC TTGGCAATTT TGCCAAACAA AATTTATTTG ACTTAATAAA

121 AGAGTCATTT CTTTGGTAGG AAAGTACATT GGCACGTAAA GGAGCCCCAA GCAATCTGTG
TCTCAGTAAA GAAACCATCC TTTCATGTAA CCGTGCATTT CCTCGGGTTT CGTTAGACAC

181 GAAAGCCCAG GCTGGGAGCC CAGCAGTTTG CATCCCCTCC TGGCGTGTAC CTAAGGGTTT
CTTTCGGGTC CGACCCTCGG GTCGTCAAAC GTAGGGGAGG ACCGCACATG GATTCACCAA

241 CTTAATTGTG TGGTTTCTAA ATCTTCCAGA GGGTTTGTCT CATTCACTTC CACTTCGGTG
GAATTAACAC ACCAAAGATT TAGAAGGTCT CCCAAACAGA GTAAGTGAAG GTGAAGCCAC

301 CACAATACTT GGACGCGGAT TTA CTGTCTT AGCATCTATC GGTGGCCCTT CGATTGAGGC
GTGTTATGAA CCTGCGCCTA AATGACAGAA TCGTAGATAG CCACCGGGAA GCTAACTCCG

361 TGAACCTGAG GCCCACTTCT TCAGCTTGTT AAGGAGAGCA CAAGCACCAG AAGAGGCTGA
ACTTGGA CTC CGGGTGAAGA AGTCGAACAA TTCCTCTCGT GTTCGTGGTC TTCTCCGACT

421 CCCGGCAGAC CTGTGGGCAT TTTTAACAAG GGCCTCCTGG GTCTGTGGGA GGCAGGCTTA
GGGCCGCTG GACACCCGTA AAAATTGTTC CCGGAGGACC CAGACACCCT CCGTCCGAAT

481 CATAAGGTGC AAATTAGAAA TATAAATAAT AAGCCCATAT CAATTTGTCA TCTTTTTTTA
GTATTCCACG TTTAATCTTT ATATTTATTA TTCGGGTATA GTTAAACAGT AGAAAAAAT

541 AGCTCAAGTT TTGAAAGACC CCACCTGTAG GTTTGGCAAG CTAGCTTAAG TAACGCCATT
TCGAGTTCAA AACTTTCTGG GGTGGACATC CAAACCGTTC GATCGAATTC ATTGCGGTAA

601 TTGCAAGGCA TGGAAAATAC ATA ACTGAGA ATAGAGAAGT TCAGATCAAG GTTAGGAACA
AACGTTCCGT ACCTTTTATG TATTGACTCT TATCTCTTCA AGTCTAGTTC CAATCCTTGT

661 GAGAGACAGC AGAATATGGG CCAAACAGGA TATCTGTGGT AAGCAGTTCC TGCCCCGCTC
CTCTCTGTCT TCTTATACCC GGTGTGTCT ATAGACACCA TTCGTCAAGG ACGGGGCGAG

721 AGGGCCAAGA ACAGTTGGAA CAGGAGAATA TGGGCCAAAC AGGATATCTG TGGTAAGCAG
TCCCGGTTCT TGTCAACCTT GTCCTCTTAT ACCCGGTTTG TCCTATAGAC ACCATTCGTC

781 TTCCTGCCCC GGCTCAGGGC CAAGAACAGA TGGTCCCCAG ATGCGGTCCC GCCCTCAGCA
AAGGACGGGG CCGAGTCCCG GTTCTTGTCT ACCAGGGGTC TACGCCAGGG CGGGAGTCGT

841 GTTCTAGAG AACCATCAGA TGTTTCCAGG GTGCCCAAG GACCTGAAAT GACCCTGTGC
CAAAGATCTC TTGGTAGTCT ACAAAGGTCC CACGGGGTTC CTGGACTTTA CTGGGACACG

901 CTTATTTGAA CTAACCAATC AGTTCGCTTC TCGCTTCTGT TCGCGCGCTT CTGCTCCCCG
GAATAAACTT GATTGGTTAG TCAAGCGAAG AGCGAAGACA AGCGCGCGAA GACGAGGGGC

961 AGCTCAATAA AAGAGCCCAC AACCCCTCAC TCGGCGCGCC AGTCCTCCGA TAGACTGCGT
TCGAGTTATT TTCTCGGGTG TTGGGGAGTG AGCCGCGCGG TCAGGAGGCT ATCTGACGCA

1021 CGCCCCGGTA CCCGTATTCC CAATAAAGCC TCTTGCTGTT TGCATCCGAA TCGTGGACTC
GCGGGCCCAT GGGCATAAGG GTTATTTTCG AGAACGACAA ACGTAGGCTT AGCACCTGAG

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|------|----------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| 1081 | GCTGATCCTT CGACTAGGAA | GGGAGGGTCT CCCTCCCAGA | CCTCAGATTG GGAGTCTAAC | ATTGACTGCC TAACTGACGG | CACCTCGGGG GTGGAGCCCC | GTCTTTCATT CAGAAAGTAA |
| 1141 | TGGAGGTTCC ACCTCCAAGG | ACCGAGATTT TGGCTCTAAA | GGAGACCCCT CCTCTGGGGA | GCCCAGGGAC CGGGTCCCTG | CACCGACCCC GTGGCTGGGG | CCCGCCGGGA GGGCGGCCCT |
| 1201 | GGTAAGCTGG CCATTGACCC | CCAGCAACTT GGTCGTTGAA | ATCTGTGTCT TAGACACAGA | GTCCGATTGT CAGGCTAACA | CTAGTGTCTA GATCACAGAT | TGACTGATTT ACTGACTAAA |
| 1261 | TATGCGCCTG ATACGCGGAC | CGTCGGTACT GCAGCCATGA | AGTTAGCTAA TCAATCGATT | CTAGCTCTGT GATCGAGACA | ATCTGGCGGA TAGACCGCCT | CCCGTGGTGG GGGCACCACC |
| 1321 | AACTGACGAG TTGACTGCTC | TTCGGAACAC AAGCCTTGTT | CCGGCCGCAA GGCCGGCGTT | CCCTGGGAGA GGGACCCTCT | CGTCCCAGGG GCAGGGTCCC | ACTTCGGGGG TGAAGCCCCC |
| 1381 | CCGTTTTTGT GGCAAAAACA | GGCCCCGACCT CCGGGCTGGA | GAGTCCTAAA CTCAGGATTT | ATCCCGATCG TAGGGCTAGC | TTTAGGACTC AAATCCTGAG | TTTGGTGCAC AAACCACGTG |
| 1441 | CCCCCTTAGA GGGGGAATCT | GGAGGGATAT CCTCCCTATA | GTGGTTCTGG CACCAAGACC | TAGGAGACGA ATCCTCTGCT | GAACCTAAAA CTTGGATTTT | CAGTTCCCGC GTCAAGGGCG |
| 1501 | CTCCGTCTGA GAGGCAGACT | ATTTTTGCTT TAAAAACGAA | TCGGTTTGGG AGCCAAACCC | ACCGAAGCCG TGGCTTCGGC | CGCCGCGCGT GCGGCGCGCA | CTTGTCTGCT GAACAGACGA |
| 1561 | GCAGCATCGT CGTCGTAGCA | TCTGTGTTGT AGACACAACA | CTCTGTCTGA GAGACAGACT | CTGTGTTTCT GACACAAAGA | GTATTTGTCT CATAAACAGA | GAAAATATGG CTTTTATACC |
| 1621 | GCCCCGGGCTA CGGGCCCCGAT | GACTGTTACC CTGACAATGG | ACTCCCTTAA TGAGGGAATT | GTTTGACCTT CAAACCTGGAA | AGGTCACTGG TCCAGTGACC | AAAGATGTCG TTTCTACAGC |
| 1681 | AGCGGATCGC TCGCCTAGCG | TCACAACCAG AGTGTTGGTC | TCGGTAGATG AGCCATCTAC | TCAAGAAGAG AGTTCTTCTC | ACGTTGGGTT TGCAACCCAA | ACCTTCTGCT TGGAAGACGA |
| 1741 | CTGCAGAAATG GACGTCTTAC | GCCAACCTTT CGGTTGGAAA | AACGTCGGAT TTGCAGCCTA | GGCCGCGAGA CCGGCGCTCT | CGGCACCTTT GCCGTGGAAA | AACCGAGACC TTGGCTCTGG |
| 1801 | TCATCACCCA AGTAGTGGGT | GGTTAAGATC CCAATTCTAG | AAGGTCTTTT TTCCAGAAAA | CACCTGGCCC GTGGACCGGG | GCATGGACAC CGTACCTGTG | CCAGACCAGG GGTCTGGTCC |
| 1861 | TCCCCTACAT AGGGGATGTA | CGTGACCTGG GCACTGGACC | GAAGCCTTGG CTTCGGAACC | CTTTTGACCC GAAAACTGGG | CCCTCCCTGG GGGAGGGACC | GTCAAGCCCT CAGTTCGGGA |
| 1921 | TTGTACACCC AACATGTGGG | TAAGCCTCCG ATTGCGGAGG | CCTCCTCTTC GGAGGAGAAG | CTCCATCCGC GAGGTAGGCG | CCCGTCTCTC GGGCAGAGAG | CCCCTTGAAC GGGGAACCTG |
| 1981 | CTCCTCGTTC GAGGAGCAAG | GACCCCGCCT CTGGGGCGGA | CGATCCTCCC GCTAGGAGGG | TTTATCCAGC AAATAGGTCT | CCTCACTCCT GGAGTGAGGA | TCTCTAGGCG AGAGATCCGC |
| 2041 | CCCCCATATG GGGGGTATAC | GCCATATGAG CGGTATACTC | ATCTTATATG TAGAATATAC | GGGCACCCCC CCCGTGGGGG | GCCCCTTGTA CGGGGAACAT | AACTTCCCTG TTGAAGGGAC |
| 2101 | ACCCTGACAT TGGGACTGTA | GACAAGAGTT CTGTTCTCAA | ACTAACAGCC TGATTGTCTG | CCTCTCTCCA GGAGAGAGGT | AGCTCACTTA TCGAGTGAAT | CAGGCTTCTA GTCCGAAGAT |
| 2161 | CTTAGTCCAG GAATCAGGTC | CACGAAGTCT GTGCTTCAGA | GGAGACCTCT CCTCTGGAGA | GGCGGCAGCC CCGCCGTCGG | TACCAAGAAC ATGGTTCTTG | AACTGGACCG TTGACCTGGC |
| 2221 | ACCGGTGGTA TGGCCACCAT | CCTCACCTTT GGAGTGGGAA | ACCGAGTCGG TGGCTCAGCC | CGACACAGTG GCTGTGTCAC | TGGGTCCGCC ACCCAGGCGG | GACACCAGAC CTGTGGTCTG |

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|------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 2281 | TAAGAACCTA ATTCTTGGAT | GAACCTCGCT CTTGGAGCGA | GGAAAGGACC CCTTTCCTGG | TTACACAGTC AATGTGTCAG | CTGCTGACCA GACGACTGGT | CCCCACCGC GGGGGTGGCG |
| 2341 | CCTCAAAGTA GGAGTTTCAT | GACGGCATCG CTGCCGTAGC | CAGCTTGGAT GTCGAACCTA | ACACGCCGCC TGTGCGGCGG | CACGTGAAGG GTGCACTTCC | CTGCCGACCC GACGGCTGGG |
| 2401 | CGGGGGTGGG GCCCCACCT | CCATCCTCTA GGTAGGAGAT | GACTGCCATG CTGACGGTAC | GGATGGAGCT CCTACCTCGA | GTATCATCCT CATAGTAGGA | CTTCTTGGTA GAAGAACCAT |
| 2461 | GCAACAGCTA CGTTGTGCGAT | CAGGTGTCCA GTCCACAGGT | CTCCGACATC GAGGCTGTAG | CAGCTGACCC GTCGACTGGG | AGAGCCCAAG TCTCGGGTTC | CAGCCTGAGC GTCGGACTCG |
| 2521 | GCCAGCGTGG CGGTCGCACC | GTGACAGAGT CACTGTCTCA | GACCATCACC CTGGTAGTGG | TGTAAGGCCA ACATTCCGGT | GTCAGGATGT CAGTCCTACA | GGGTACTTCT CCCATGAAGA |
| 2581 | GTAGCTTGGT CATCGAACCA | ACCAGCAGAA TGGTCGTCTT | GCCAGGTAAG CGGTCCATTC | GCTCCAAAGC CGAGGTTTCG | TGCTGATCTA ACGACTAGAT | CTGGACATCC GACCTGTAGG |
| 2641 | ACCCGGCACA TGGGCCGTGT | CTGGTGTGCC GACCACACGG | AAGCAGATTC TTCGTCTAAG | AGCGGTAGCG TCGCCATCGC | GTAGCGGTAC CATCGCCATG | CGACTTCACC GCTGAAGTGG |
| 2701 | TTCACCATCA AAGTGGTAGT | GCAGCCTCCA CGTCGGAGGT | GCCAGAGGAC CGGTCTCCTG | ATCGCCACCT TAGCGGTGGA | ACTACTGCCA TGATGACGGT | GCAATATAGC CGTTATATCG |
| 2761 | CTCTATCGGT GAGATAGCCA | CGTTCGGCCA GCAAGCCGGT | AGGGACCAAG TCCCTGGTTC | GTGGAAATCA CACCTTTAGT | AACGAGGTGG TTGCTCCACC | CTCAGGATCG GAGTCTTAGC |
| 2821 | GGTGGATCCG CCACCTAGGC | GCTCTGGTGG CGAGACCACC | CTCAGGATCG GAGTCCTAGC | GAGGTCCAAC CTCCAGGTTG | TGGTGGAGAG ACCACCTCTC | CGGTGGAGGT GCCACCTCCA |
| 2881 | GTTGTGCAAC CAACACGTTG | CTGGCCGGTC GACCGGCCAG | CCTGCGCCTG GGACGCGGAC | TCCTGCTCCG AGGACGAGGC | CATCTGGCTT GTAGACCGAA | CGATTTTACC GCTAAAGTGG |
| 2941 | ACATATTGGA TGTATAACCT | TGAGTTGGGT ACTCAACCCA | GAGACAGGCA CTCTGTCCGT | CCTGGAAAAG GGACCTTTTC | GTCTTGAGTG CAGAACTCAC | GATTGGAGAA CTAACCTCTT |
| 3001 | ATTCATCCAG TAAGTAGGTC | ATAGCAGTAC TATCGTCATG | GATTAACTAT CTAATTGATA | GCGCCGTCTC CGCGGCAGAG | TAAAGGATAG ATTTCTTATC | ATTTACAATA TAAATGTTAT |
| 3061 | TCGCGAGACA AGCGCTCTGT | ACGCCAAGAA TGCGGTTCTT | CACATTGTTT GTGTAACAAG | CTGCAAATGG GACGTTTACC | ACAGCCTGAG TGTCGGACTC | ACCCGAAGAC TGGGCTTCTG |
| 3121 | ACCGGGGTCT TGGCCCCAGA | ATTTTGTGTC TAAAAACACG | AAGCCTTTAC TTCGGAAATG | TTCGGCTTCC AAGCCGAAGG | CCTGGTTTGC GGACCAAACG | TTATTGGGGC AATAACCCCG |
| 3181 | CAAGGGACCC GTTCCCTGGG | CGGTCACCGT GCCAGTGGCA | CTCCAGTGCT GAGGTCACGA | AAGCCCACCA TTCGGGTGGT | CGACGCCAGC GCTGCGGTCG | GCCGCGACCA CGGCGCTGGT |
| 3241 | CCAACACCGG GGTTGTGGCC | CGCCCACCAT GCGGGTGGTA | CGCGTCGCAG GCGCAGCGTC | CCCCTGTCCC GGGGACAGGG | TGCGCCCAGA ACGCGGGTCT | GGCGGCTCGG CCGCCGAGCC |
| 3301 | CCAGCGGCGG GGTCGCCGCC | GGGGCGCAGT CCCCGCGTCA | GCACACGAGG CGTGTGCTCC | GGGCTGGACT CCCGACCTGA | TCGCCCTGGA AGCGGGACCT | TCCCAAATC AGGGTTTGAG |
| 3361 | TGCTACCTGC ACGATGGACG | TGGATGGAAT ACCTACCTTA | CCTCTTCATC GGAGAAGTAG | TATGGTGTCA ATACCACAGT | TTCTCACTGC AAGAGTGACG | CTTGTTCTTG GAACAAGGAC |
| 3421 | AGAGTGAAGT TCTCACTTCA | TCAGCAGGAG AGTCGTCCTC | CGCAGAGCCC GCGTCTCGGG | CCCGCGTACC GGGCGCATGG | AGCAGGGCCA TCGTCCCGGT | GAACCAGCTC CTTGGTCGAG |

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|------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| 3481 | TATAACGAGC ATATTGCTCG | TCAATCTAGG AGTTAGATCC | ACGAAGAGAG TGCTTCTCTC | GAGTACGATG CTCATGCTAC | TTTGGGACAA AAAACCTGTT | GAGACGTGGC CTCTGCACCG |
| 3541 | CGGGACCCTG GCCCTGGGAC | AGATGGGGGG TCTACCCCCC | AAAGCCGAGA TTTCGGCTCT | AGGAAGAACC TCCTTCTTGG | CTCAGGAAGG GAGTCCTTCC | CCTGTACAAT GGACATGTTA |
| 3601 | GAACTGCAGA CTTGACGTCT | AAGATAAGAT TTCTATTCTA | GGCGGAGGCC CCGCCTCCGG | TACAGTGAGA ATGTCACTCT | TTGGGATGAA AACCCTACTT | AGGCGAGCGC TCCGCTCGCG |
| 3661 | CGGAGGGGCA GCCTCCCCGT | AGGGGCACGA TCCCCGTGCT | TGGCCTTTAC ACCGGAAATG | CAGGGTCTCA GTCCCAGAGT | GTACAGCCAC CATGTCGGTG | CAAGGACACC GTTCTGTGG |
| 3721 | TACGACGCCC ATGCTGCGGG | TTCACATGCA AAGGTACGT | GGCCCTGCCC CCGGGACGGG | CCTCGCTAAC GGAGCGATTG | TCGACGCGGC AGCTGCGCCG | CGCGGATCCG GCGCCTAGGC |
| 3781 | GATTAGTCCA CTAATCAGGT | ATTTGTTAAA TAAACAATTT | GACAGGATAT CTGTCTTATA | CAGTGGTCCA GTCACCAGGT | GGCTCTAGTT CCGAGATCAA | TTGACTCAAC AACTGAGTTG |
| 3841 | AATATCACCA TTATAGTGGT | GCTGAAGCCT CGACTTCGGA | ATAGAGTACG TATCTCATGC | AGCCATAGAT TCGGTATCTA | AAAATAAAAG TTTTATTTTC | ATTTTATTTA TAAAATAAAT |
| 3901 | GTCTCCAGAA CAGAGGTCTT | AAAGGGGGGA TTTCCCCCCT | ATGAAAGACC TACTTTCTGG | CCACCTGTAG GGTGGACATC | GTTTGGCAAG CAAACCGTTC | CTAGCTTAAG GATCGAATTC |
| 3961 | TAACGCCATT ATTGCGGTAA | TTGCAAGGCA AACGTTCCGT | TGGAAAATAC ACCTTTTATG | ATAACTGAGA TATTGACTCT | ATAGAGAAGT TATCTCTTCA | TCAGATCAAG AGTCTAGTTC |
| 4021 | GTTAGGAACA CAATCCTTGT | GAGAGACAGC CTCTCTGTCT | AGAATATGGG TCTTATACCC | CCAAACAGGA GGTTTGTCTT | TATCTGTGGT ATAGACACCA | AAGCAGTTCC TTCGTCAAGG |
| 4081 | TGCCCCGCTC ACGGGGCGAG | AGGGCCAAGA TCCCGGTTCT | ACAGTTGGAA TGTC AACCTT | CAGGAGAATA GTCCTCTTAT | TGGGCCAAAC ACCCGGTTTG | AGGATATCTG TCCTATAGAC |
| 4141 | TGGTAAGCAG ACCATTCGTC | TTCCTGCCCC AAGGACGGGG | GGCTCAGGGC CCGAGTCCCG | CAAGAACAGA GTTCTTGTCT | TGGTCCCCAG ACCAGGGGTC | ATGCGGTCCC TACGCCAGGG |
| 4201 | GCCCTCAGCA CGGGAGTCGT | GTTTCTAGAG CAAAGATCTC | AACCATCAGA TTGGTAGTCT | TGTTTCCAGG ACAAAGGTCC | GTGCCCCAAG CACGGGGTTC | GACCTGAAAT CTGGACTTTA |
| 4261 | GACCCTGTGC CTGGGACACG | CTTATTTGAA GAATAAACTT | CTAACCAATC GATTGGTTAG | AGTTCGCTTC TCAAGCGAAG | TCGCTTCTGT AGCGAAGACA | TCGCGCGCTT AGCGCGCGAA |
| 4321 | CTGCTCCCCG GACGAGGGGC | AGCTCAATAA TCGAGTTATT | AAGAGCCCAC TTCTCGGGTG | AACCCCTCAC TTGGGGAGTG | TCGGCGCGCC AGCCGCGCGG | AGTCCTCCGA TCAGGAGGCT |
| 4381 | TAGACTGCGT ATCTGACGCA | CGCCCCGGTA GCGGGCCCAT | CCCGTGTCTT GGGCACAAGA | CAATAAACCC GTTATTTGGG | TCTTGCAGTT AGAACGTCAA | GCATCCGACT CGTAGGCTGA |
| 4441 | CGTGGTCTCG GCACCAGAGC | CTGTTCCCTT GACAAGGAAC | GGAGGGTCTC CCTCCCAGAG | TCTGAGTGAT AGACTCACTA | TGACTACCCG ACTGATGGGC | TCAGCGGGGT AGTCGCCCCA |
| 4501 | CTTTTCAGTTT GAAAGTCAAA | CTCCCACCTA GAGGGTGGAT | CACAGGTCTC GTGTCCAGAG | ACTAACATTG TGATTGTAAG | CTGATGTGCC GACTACACGG | GCAGGGACTC CGTCCCTGAG |
| 4561 | CGTCAGCCCG GCAGTCGGGC | GTTTTTGT CAAAAACAAA | ATAATAAAAT TATTATTTTA | GCAAGAACAG CGTTCTTGTC | TGTTCCCTTC ACAAGGGAAG | AAGCCAGACT TTCGGTCTGA |
| 4621 | ACATCCTGAC TGTAGGACTG | TCTCGGCTTT AGAGCCGAAA | ATAAAAGAAT TATTTTCTTA | GTTGAAGGGC CAACTTCCCG | TCTGTGGACT AGACACCTGA | ATCTGCCACA TAGACGGTGT |

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|------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 4681 | CGACTTTTTTA GCTGAAAAAT | AGATTTTTTAT TCTAAAAATA | GCCTCCTGGA CGGAGGACCT | TGAGGGATTT ACTCCCTAAA | AGTCAATCTA TCAGTTAGAT | TCCTCGTCTA AGGAGCAGAT |
| 4741 | TTTTGCTGGC AAAACGACCG | TTCTCCGTAT AAGAGGCATA | TTTAAATTTT AAATTTAAAG | TAGTTTGAC ATCAAACGTG | TCCCTTCCTG AGGGAAGGAC | AGAGCACGGC TCTCGTGCCG |
| 4801 | GATTGCAGAG CTAACGTCTC | TAGTTAATAC ATCAATTATG | TCTGAGGGCA AGACTCCCGT | GGCTTCTGTG CCGAAGACAC | AAAAGGTTGC TTTTCCAACG | CTGGGCTCAG GACCCGAGTC |
| 4861 | TGTGAGATTT ACACTCTAAA | TGCCATAAAA ACGGTATTTT | AGGGGTCCTG TCCCCAGGAC | CCCCTGTGTA GGGGACACAT | CAGACAGATC GTCTGTCTAG | GGAATCTAGA CCTTAGATCT |
| 4921 | GTGCATACTC CACGTATGAG | AGAGTCCCCG TCTCAGGGGC | CGGTTCCGGG GCCAAGGCC | GCTCTGATCT CGAGACTAGA | CAGGGCATCT GTCCCGTAGA | TTGCCTAGAG AACGGATCTC |
| 4981 | ATCCTCTACG TAGGAGATGC | CCGGACGCAT GGCCTGCGTA | CGTGGCCGGG GCACCGGCC | TACCGAGCTC ATGGCTCGAG | GAATTCGTAA CTTAAGCATT | TCATGGTCAT AGTACCAGTA |
| 5041 | AGCTGTTTTCC TCGACAAAGG | TGTGTGAAAT ACACACTTTA | TGTTATCCGC ACAATAGGCG | TCACAATTCC AGTGTTAAGG | ACACAACATA TGTGTTGTAT | CGAGCCGGAA GCTCGGCCTT |
| 5101 | GCATAAAGTG CGTATTTTAC | TAAAGCCTGG ATTTCCGACC | GGTGCCTAAT CCACGGATTA | GAGTGAGCTA CTCACTCGAT | ACTCACATTA TGAGTGTAAT | ATTGCGTTGC TAACGCAACG |
| 5161 | GCTCACTGCC CGAGTGACGG | CGCTTTCCAG GCGAAAGGTC | TCGGGAAACC AGCCCTTTGG | TGTCGTGCCA ACAGCACGGT | GCTGCATTAA CGACGTAATT | TGAATCGGCC ACTTAGCCGG |
| 5221 | AACGCGCGGG TTGCGCGCCC | GAGAGGCGGT CTCTCCGCCA | TTGCGTATTG AACGCATAAC | GGCGCTCTTC CCGCGAGAAG | CGCTTCCTCG GCGAAGGAGC | CTCACTGACT GAGTGACTGA |
| 5281 | CGCTGCGCTC GCGACGCGAG | GGTCGTTCGG CCAGCAAGCC | CTGCGGCGAG GACGCCGCTC | CGGTATCAGC GCCATAGTCG | TCACTCAAAG AGTGAGTTTC | GCGGTAATAC CGCCATTATG |
| 5341 | GGTTATCCAC CCAATAGGTG | AGAATCAGGG TCTTAGTCCC | GATAACGCAG CTATTGCGTC | GAAAGAACAT CTTCTTTGTA | GTGAGCAAAA CACTCGTTTT | GGCCAGCAAA CCGGTCGTTT |
| 5401 | AGGCCAGGAA TCCGGTCCTT | CCGTAAAAAG GGCATTTTTT | GCCGCGTTGC CGGCGCAACG | TGGCGTTTTT ACCGCAAAAA | CCATAGGCTC GGTATCCGAG | CGCCCCCTG GCGGGGGGAC |
| 5461 | ACGAGCATCA TGCTCGTAGT | CAAAAATCGA GTTTTTAGCT | CGCTCAAGTC GCGAGTTCAG | AGAGGTGGCG TCTCCACCGC | AAACCCGACA TTTGGGCTGT | GGACTATAAA CCTGATATTT |
| 5521 | GATACCAGGC CTATGGTCCG | GTTTCCCCCT CAAAGGGGGA | GGAAGCTCCC CCTTCGAGGG | TCGTGCGCTC AGCACGCGAG | TCCTGTTCCG AGGACAAGGC | ACCCTGCCGC TGGGACGGCG |
| 5581 | TTACCGGATA AATGGCCTAT | CCTGTCCGCC GGACAGGCGG | TTTCTCCCTT AAAGAGGGAA | CGGGAAGCGT GCCCTTCGCA | GGCGCTTTCT CCGCGAAAGA | CATAGCTCAC GTATCGAGTG |
| 5641 | GCTGTAGGTA CGACATCCAT | TCTCAGTTCT AGAGTCAAGC | GTGTAGGTCG CACATCCAGC | TTCGCTCCAA AAGCGAGGTT | GCTGGGCTGT CGACCCGACA | GTGCACGAAC CACGTGCTTG |
| 5701 | CCCCCGTTCA GGGGGCAAGT | GCCCCGACCG CGGGCTGGCG | TGCGCCTTAT ACGCGGAATA | CCGGTAACTA GGCCATTGAT | TCGTCTTGAG AGCAGAACTC | TCCAACCCGG AGGTTGGGCC |
| 5761 | TAAGACACGA ATTCTGTGCT | CTTATCGCCA GAATAGCGGT | CTGGCAGCAG GACCGTCGTC | CCACTGGTAA GGTGACCATT | CAGGATTAGC GTCCTAATCG | AGAGCGAGGT TCTCGCTCCA |
| 5821 | ATGTAGGCGG TACATCCGCC | TGCTACAGAG ACGATGTCTC | TTCTTGAAGT AAGAACTTCA | GGTGGCCTAA CCACCGGATT | CTACGGCTAC GATGCCGATG | ACTAGAAGGA TGATCTTCCT |

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|------|---------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 5881 | CAGTATTTGG GTCATAAACC | TATCTGCGCT ATAGACGCGA | CTGCTGAAGC GACGACTTCG | CAGTTACCTT GTCAATGGAA | CGGAAAAAGA GCCTTTTTCT | GTTGGTAGCT CAACCATCGA |
| 5941 | CTTGATCCGG GAACTAGGCC | CAAACAAACC GTTTGTTTGG | ACCGCTGGTA TGGCGACCAT | GCGGTGGTTT CGCCACCAAA | TTTTGTTTGC AAAACAAACG | AAGCAGCAGA TTCGTCGTCT |
| 6001 | TTACGCGCAG AATGCGCGTC | AAAAAAAGGA TTTTTTTCCT | TCTCAAGAAG AGAGTTCTTC | ATCCTTTGAT TAGGAAACTA | CTTTTCTACG GAAAAGATGC | GGGTCTGACG CCCAGACTGC |
| 6061 | CTCAGTGGA GAGTCACCTT | CGAAAACTCA GCTTTTGAGT | CGTTAAGGGA GCAATTCCCT | TTTTGGTCAT AAAACCAGTA | GAGATTATCA CTCTAATAGT | AAAAGGATCT TTTTCTAGA |
| 6121 | TCACCTAGAT AGTGGATCTA | CCTTTTAAAT GGAAAATTTA | TAAAAATGAA ATTTTTACTT | GTTTTAAATC CAAAATTTAG | AATCTAAAGT TTAGATTTCA | ATATATGAGT TATATACTCA |
| 6181 | AAACTTGGTC TTTGAACCAG | TGACAGTTAC ACTGTCAATG | CAATGCTTAA GTTACGAATT | TCAGTGAGGC AGTCACTCCG | ACCTATCTCA TGGATAGAGT | GCGATCTGTC CGCTAGACAG |
| 6241 | TATTTTCGTT ATAAAGCAAG | ATCCATAGTT TAGGTATCAA | GCCTGACTCC CGGACTGAGG | CCGTCGTGTA GGCAGCACAT | GATAACTACG CTATTGATGC | ATACGGGAGG TATGCCCTCC |
| 6301 | GCTTACCATC CGAATGGTAG | TGGCCCCAGT ACCGGGGTCA | GCTGCAATGA CGACGTTACT | TACCGCGAGA ATGGCGCTCT | CCCACGCTCA GGGTGCGAGT | CCGGCTCCAG GGCCGAGGTC |
| 6361 | ATTTATCAGC TAAATAGTCG | AATAAACCCAG TTATTTGGTC | CCAGCCGGAA GGTCGGCCTT | GGGCCGAGCG CCCGGCTCGC | CAGAAGTGGT GTCTTCACCA | CCTGCAACTT GGACGTTGAA |
| 6421 | TATCCGCCTC ATAGGCGGAG | CATCCAGTCT GTAGGTCAGA | ATTAATTGTT TAATTAACAA | GCCGGGAAGC CGGCCCTTCG | TAGAGTAAAGT ATCTCATTCA | AGTTCGCCAG TCAAGCGGTC |
| 6481 | TTAATAGTTT AATTATCAAA | GCGCAACGTT CGCGTTGCAA | GTTGCCATTG CAACGGTAAC | CTACAGGCTC GATGTCCGAG | GTGGTGTAC CACCACAGTG | GCTCGTCGTT CGAGCAGCAA |
| 6541 | TGGTATGGCT ACCATAACCGA | TCATTCAGCT AGTAAGTCGA | CCGGTTCCCA GGCCAAGGGT | ACGATCAAGG TGCTAGTTCC | CGAGTTACAT GCTCAATGTA | GATCCCCCAT CTAGGGGGTA |
| 6601 | GTTGTGCAAA CAACACGTTT | AAAGCGGTTA TTTCGCCAAT | GCTCCTTCGG CGAGGAAGCC | TCCTCCGATC AGGAGGCTAG | GTTGTCAGAA CAACAGTCTT | GTAAGTTGGC CATTCAACCG |
| 6661 | CGCAGTGTTA GCGTCACAAT | TCACTCATGG AGTGAGTACC | TTATGGCAGC AATACCGTCG | ACTGCATAAT TGACGTATTA | TCTCTTACTG AGAGAATGAC | TCATGCCATC AGTACGGTAG |
| 6721 | CGTAAGATGC GCATTCTACG | TTTTCTGTGA AAAAGACACT | CTGGTGAGTA GACCACTCAT | CTCAACCAAG GAGTTGGTTC | TCATTCTGAG AGTAAGACTC | AATAGTGTAT TTATCACATA |
| 6781 | GCGGCGACCG CGCCGCTGGC | AGTTGCTCTT TCAACGAGAA | GCCCCGCGTC CGGGCCGCAG | AATACGGGAT TTATGCCCTA | AATACCGCGC TTATGGCGCG | CACATAGCAG GTGTATCGTC |
| 6841 | AACTTTAAAA TTGAAATTTT | GTGCTCATCA CACGAGTAGT | TTGGAAAACG AACCTTTTGC | TTCTTCGGGG AAGAAGCCCC | CGAAAACCTCT GCTTTTGAGA | CAAGGATCTT GTTCCCTAGAA |
| 6901 | ACCGCTGTTG TGGCGACAAC | AGATCCAGTT TCTAGGTCAA | CGATGTAACC GCTACATTGG | CACTCGTGCA GTGAGCACGT | CCCAACTGAT GGGTTGACTA | CTTCAGCATC GAAGTCGTAG |
| 6961 | TTTTACTTTT AAAATGAAAG | ACCAGCGTTT TGGTCGCAAA | CTGGGTGAGC GACCCACTCG | AAAAACAGGA TTTTTGTCCT | AGGCAAAATG TCCGTTTTTAC | CCGCAAAAAA GGCGTTTTTT |
| 7021 | GGGAATAAGG CCCTTATTCC | GCGACACGGA CGCTGTGCCT | AATGTTGAAT TTACAACCTA | ACTCATACTC TGAGTATGAG | TTCCTTTTTT AAGGAAAAAG | AATATTATTG TTATAATAAC |

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|------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|
| 7081 | AAGCATTTAT TTCGTAAATA | CAGGGTTATT GTCCCAATAA | GTCTCATGAG CAGAGTACTC | CGGATACATA GCCTATGTAT | TTTGAATGTA AAACTTACAT | TTTAGAAAAA AAATCTTTTT |
| 7141 | TAAACAAATA ATTTGTTTAT | GGGGTTCCGC CCCCAAGGCG | GCACATTTCC CGTGTAAGG | CCGAAAAGTG GGCTTTTCAC | CCACCTGACG GGTGGACTGC | TCTAAGAAAC AGATTCTTTG |
| 7201 | CATTATTATC GTAATAATAG | ATGACATTAA TACTGTAATT | CCTATAAAAA GGATATTTTT | TAGGCGTATC ATCCGCATAG | ACGAGGCCCT TGCTCCGGGA | TTCGTCTCGC AAGCAGAGCG |
| 7261 | GCGTTTCGGT CGCAAAGCCA | GATGACGGTG CTACTGCCAC | AAAACCTCTG TTTTGGAGAC | ACACATGCAG TGTGTACGTC | CTCCCGGAGA GAGGGCCTCT | CGGTACACGC GCCAGTGTGC |
| 7321 | TTGTCTGTAA AACAGACATT | GCGGATGCCG CGCCTACGGC | GGAGCAGACA CCTCGTCTGT | AGCCCGTCAG TCGGGCAGTC | GGCGCGTCAG CCGCGCAGTC | CGGGTGTGCG GCCCACAACC |
| 7381 | CGGGTGTCGG GCCCACAGCC | GGCTGGCTTA CCGACCGAAT | ACTATGCGGC TGATACGCCG | ATCAGAGCAG TAGTCTCGTC | ATTGTACTGA TAACATGACT | GAGTGCACCA CTCACGTGGT |
| 7441 | TATGCGGTGT ATACGCCACA | GAAATACCGC CTTTATGGCG | ACAGATGCGT TGTCTACGCA | AAGGAGAAAA TTCCTCTTTT | TACCGCATCA ATGGCGTAGT | GGCGCCATTC CCGCGGTAAG |
| 7501 | GCCATTCAGG CGGTAAGTCC | CTGCGCAACT GACGCGTTGA | GTTGGGAAGG CAACCCTTCC | GCGATCGGTG CGCTAGCCAC | CGGGCCTCTT GCCC GGAGAA | CGCTATTACG GCGATAATGC |
| 7561 | CCAGCTGGCG GGTCGACCGC | AAAGGGGGAT TTTCCCCCTA | GTGCTGCAAG CACGACGTTC | GCGATTAAGT CGCTAATTCA | TGGGTAACGC ACCCATTGCG | CAGGGTTTTTC GTCCCAAAG |
| 7621 | CCAGTCACGA GGTCAGTGCT | CGTTGTAAAA GCAACATTTT | CGACGGCCAG GCTGCCGGTC | TGCC ACGG | | |